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10/813,113	03/31/2004	Kyeong Su Yim	P-0581	5535

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EXAMINER
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WENDMAGEGN, GIRUMSEW

ART UNIT	PAPER NUMBER
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2621

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

10/813,113

Applicant(s)

YIM, KYEONG SU

Examiner

Girumsew Wendmagegn

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 31 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claim1-13, 15-29** is rejected under 35 U.S.C. 102(b) as being anticipated by Kunii et al (Pub. No. US 2002/0122080).

Regarding claim1, Kunii et al (hereinafter Kunii) anticipates a method for reservation-recording a broadcasting program comprising the steps of: downloading broadcasting program information and storing the information in a PDA ( see page6-7 paragraph 0127); converting the stored broadcasting program information into data information to be displayed on a screen of the PDA and then outputting ( see figure 17, figure25); searching the broadcasting program information displayed on the screen ( see page14 paragraph 0242-0244); and performing a reservation-recording by selecting a reservation-recording key of the PDA based on the searched broadcasting program information (see page14 paragraph 0242-0244 and figure39 element 363).

Regarding claim2, Kunii anticipates the method of claim 1, wherein the step for performing a reservation-recording includes the steps of: transmitting reservation-recording information to an event timer of a recording apparatus in response to the input

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of the reservation-recording key (see page16-17 paragraph 0281-0291); and storing the transmitted reservation-recording information to the event timer of the recording apparatus, operating the event timer on preset reservation time based on the reservation-recording information thereby turning on a power of the recording apparatus, and performing a reservation-recording (see page16-17 paragraph 0281-0291).

Regarding claim3, Kunii anticipates the method of claim 1, wherein in the step for performing a reservation-recording, the broadcasting program information selected by a user among the displayed broadcasting program information is wirelessly transmitted to the record apparatus (see page17 paragraph 0291).

Regarding claim4, Kunii anticipates the method of claim 1, wherein in the step for downloading broadcasting program information and storing, broadcasting program information is downloaded through a broadcasting program data service provider's internet homepage (see page10 paragraph 0177).

Regarding claim5, Kunii anticipates the method of claim 1, wherein in the step for downloading broadcasting program information and storing, broadcasting program information is directly downloaded from a broadcasting receiver where broadcasting program information is stored (see page11 paragraph 0190).

Regarding claim6, Kunii anticipates the method of claim 1, wherein in the step for outputting the broadcasting program information on the screen, icons are generated on the basis of the stored broadcasting program information thus to be displayed on the screen (see figure23-25 and page2 paragraph 0038).

Regarding claim7, Kunii anticipates the method of claim 6, wherein if the displayed icon is selected, broadcasting channel information, broadcasting time information, and broadcasting program information according to each channel and time are displayed as a list form (see figure 25).

Regarding claim8, Kunii anticipates the method of claim 7, wherein in the step for performing a reservation-recording, when the user selects an arbitrary broadcasting program, broadcasting channel information and broadcasting time information corresponding to the broadcasting program title are displayed with an enlargement (see figure29), and a guide message inquiring whether the information is to be set as reservation- recording information is displayed (see figure 37).

Regarding claim9, Kunii anticipates the method of claim 1, wherein in the step for searching the broadcasting program, if an electric program guide (EPG) is provided as the broadcasting program information, a channel is set by inputting an up/down key of the PDA when the channel inside the EPG is highlighted (see figure 29).

Regarding claim10, Kunii anticipates the method of claim 9, wherein in the step for searching the broadcasting program, a software channel management for the broadcasting program information is provided at the PDA thus to compare a channel set by a user with channel information of the program guide and to perform a channel search among substantial active channels (see page10 paragraph 0181).

Regarding claim11, Kunii anticipates the method of claim 1, wherein the PDA downloads broadcasting program information through a broadcasting receiver for receiving broadcasting program information thus to store in a memory and perform a search and a reservation-recording of the broadcasting program (see page7 paragraph 0127).

Regarding claim12, Kunii anticipates the method of claim 1, wherein the PDA accesses to a wireless internet network through a mobile communication module thus to download a broadcasting program from a broadcasting program service provider's internet homepage and store the program in a memory, and then performs a search and a reservation-recording of the program (see page10 paragraph 0177 and page14 paragraph 0242-0244).

Regarding claim13, Kunii anticipates a broadcasting program reservation-recording method using a PDA comprising the steps of: searching broadcasting program information using a PDA see page6-7 paragraph 0127); a user's selecting his

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desired broadcasting program among the searched broadcasting programs, and transmitting reservation-recording information corresponding to the broadcasting program as a transmission packet (ex, CDMA packet) form(see page16-17 paragraph 0281-0291) ; transmitting the packetted reservation-recording information to a subscriber's server through a wireless internet network (see page17 paragraph 0288); transmitting the reservation-recording information to the subscriber's IP address based on the transmission packet of the reservation-recording information which has been transmitted to the subscriber's server (see page17 paragraph 028; page10 paragraph 0178) ; and performing a reservation-recording in a recording apparatus by receiving the reservation-recording information (see page17 paragraph 0291).

Regarding claim15, the method of claim 13, wherein in the step for performing a reservation-recording, the reservation-recording information is stored by an event timer including a non-volatile memory, a power of the recording apparatus is turned on at a preset reservation time of the broadcasting program on the basis of the reservation-recording information, and a reservation-record is performed (see page14 paragraph 0242-0244 and figure39 element 363).

Regarding claim16, the method of claim 13, wherein the transmission packet includes a packet header for informing data content, a subscriber's code for informing subscriber's information, reservation-recording information, and a subscriber's IP information(see page5 paragraph 0093).

Regarding claim 17, the method of claim 16, wherein the reservation-recording information includes channel information for performing reservation-recording, time information regarding reservation start time and reservation finish time, and category information including a program list (see page 14 paragraph 0242-0244).

Regarding claim 18, the method of claim 13, wherein the transmission packet includes a packet header for informing data content, a subscriber's PDA information, reservation-recording information, modem information when the recording apparatus is connected to the internet by a telephone wire (see page 5 paragraph 0093).

Regarding claim 19, Kunii anticipates a broadcasting program reservation-recording system using a PDA comprising: a CDMA module provided with a mobile communication module for receiving broadcasting program information (see figure 1 and page 3-4 paragraph 0080); a remote communication controller for exchanging data with an external device or performing a wireless communication in order to control the external device (see page 6 paragraph 0125); a storage unit for storing broadcasting program information received through the CDMA module and control data for each kind of external device received by the remote communication controller (see page 6 paragraph 0127); a controller for converting the broadcasting program information stored in the storage unit into data information of a suitable form to be displayed and thereby outputting (see figure 5 element 81); and a display unit for displaying data



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information regarding the broadcasting program information outputted from the controller on a screen (see figure 5 element 31).

Regarding claim20, Kunii anticipates the system of claim 19 further comprising a key input unit for selecting the data information displayed on the screen (see figure5 element 32 and 48).

Regarding claim21, Kunii anticipates the system of claim 19, wherein the controller includes: a CPU for generating icons for searching or controlling the broadcasting program information based on the data stored in the storage unit and thereby outputting on the screen of the PDA (see figure4 element 41); and a companion chip for controlling an operation of the remote communication controller through an interface with the CPU (see figure4 element 22 and 64).

Regarding claim22, Kunii anticipates the system of claim 19, wherein the controller sets an arbitrary broadcasting program selected by a user among the broadcasting program information displayed on the display unit in a recording apparatus as reservation- recording information (see figure 29 and 39).

Regarding claim23, Kunii anticipates the system of claim 21, wherein the remote communication controller includes: a remote control module for outputting a remote control signal in response to a remote control command for the external device provided

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from the companion chip connected to the CPU (see page6 paragraph0120); and a transmitter/receiver for performing a wireless data communication link with the external devices by receiving the remote control signal from the remote control module (see page6 paragraph0120).

Regarding claim24, Kunii anticipates the system of claim 23, wherein the transmitter/receiver includes: an infrared transmitter and an infrared receiver (IR transmitter/receiver) for providing an infrared wireless data communication link; and a radio frequency data communication link (RF transmitter/receiver) for providing a high frequency wireless data communication link (see figure 5 element 22, 53 and 64).

Regarding claim25, Kunii anticipates the system of claim 19, wherein the display unit for controlling video/audio data regarding the broadcasting program information and thereby outputting as screen information and audio information on the screen includes: video controller (see figure5 element 87); an audio codec (see page6 paragraph 0121); a liquid crystal display (LCD) screen (see page6 paragraph 0117); a speaker and a microphone (see figure5 element 50).

Regarding claim26, Kunii anticipates a broadcasting program reservation-recording system using a PDA comprising: a service center for providing broadcasting program information (see figure1 element 14 and figure10) ; a PDA for searching a broadcasting program by downloading broadcasting program information from the

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service center and thereby outputting reservation-recording information of the broadcasting program (see figure1 element 1-1); and a recording apparatus for reservation-recording the broadcasting program provided from the Service center based on the outputted reservation- recording information of the PDA (see page17 paragraph 0291).

Regarding claim27, Kunii anticipates the system of claim 26 further comprising a mobile communication station for providing a wireless communication means between the service center and the PDA (see figure1 element 2).

Regarding claim28, Kunii anticipates the system of claim 26, wherein the service center includes information of the PDA and internet access information of the recording apparatus (see page5 paragraph 0093).

Regarding claim29, the system of claim 28, wherein the internet access information includes IP address information of the recording apparatus when the recording apparatus is connected to the internet by an Ethernet, and includes telephone number information when the recording apparatus is connected to the internet by a telephone wire (see page5 paragraph 0093).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claim 14, 30-33** is rejected under 35 U.S.C. 103(a) as being unpatentable over Kunii et al (Pub. No. US 2002/0122080) as applied to claim 1-13 and 15-29 above and further in view of Atkinson et al (Patent no US 6,760,850).

Regarding claim 14, 30, see the teaching of Kunii above. Kunii does not teach the recording apparatus is provided with a wakeup LAN module thus to turn on the recording apparatus at the time of a data communication request from outside. However Atkinson et al (hereinafter Atkinson) teaches using wakeup LAN to turn on/off power of a device (see figure 3 and column 7 line 35-53).

One of ordinary skill in the art at the time the invention was made would have been motivated to use wakeup on LAN as in Atkinson in to Kunii system because it would allow the recording device to save power by keeping it off when it is not in use.

Regarding claim 31, Atkinson teaches the system of claim 30, wherein the wakeup LAN module includes: a system bios unit including control information for controlling a power of the recording apparatus (see column 7 line 4-12); a physical layer

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unit for performing an interface with the system bios unit in response to the data communication request from outside (see figure3 element 218); and a backup battery for providing a power to the physical layer unit and the system bios unit (see figure 3 element 318).

Regarding claim32, Atkinson teaches the system of claim 31 further comprising a power control unit for turning on/off a power of the recording apparatus based on the power control information of the system bios unit (see figure3 element 304 and 322).

Regarding claim33, Atkinson teaches the system of claim 31, wherein the system bios unit includes a power management logic unit that stands by with an operation-enable state by receiving a minimum power from the backup battery (see column7 line 63-67).

Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made, absent unexpected results to the contrary.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Huang (US 6,437,836)

Mineyana (US 7,143,429)

Kim (US 2003/0159146)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Girumsew Wendmagegn whose telephone number is 571-270-1118. The examiner can normally be reached on 7:30-5:00, M-F, all Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
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